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January 21, 2004

GOWLING LAFLEUR HENDERSON LLP

2600 - 160 Elgin Street OTTAWA Ontario K1P 1C3

Application No.

2,363,394

Owner

LIGHTSCAPE NETWORKS LTD.

Title

METHOD AND DEVICE FOR HANDI, ING OPTICAL PULSE

SIGNALS

Classification

H03K-5/00

Your File No. Examiner

08893274CA Andrew O'Malley

YOU ARE HEREBY NOTIFIED OF :

A REQUISITION BY THE EXAMINER IN ACCORDANCE WITH SUBSECTION 30(2) OF THE PATENT RULES;

A REQUISITION BY THE EXAMINER IN ACCORDANCE WITH SECTION 29 OF THE PATENT RULES.

IN ORDER TO AVOID MULTIPLE ABANDONMENTS UNDER PAIRAGRAPH 73(1)(A) OF THE PATENT ACT, A WRITTEN REPLY TO EACH REQUISITION MUST BE RECEIVED WITHIN SIX MONTHS AFTER THE ABOVE DATE.

This application has been examined as originally filed.

The number of claims in this application is 33.

A search of the prior art has revealed the following:

References Applied

United States Patents

6,178,035 6,047,011

Jan. 23 2001

G02F-1/35

EDA et al.

COOK

5,166,942

Apr. 4 2000 Nov. 24 1992

H01S-3/10 H01S-3/10

CARDIMONA et al.

EDA et al. teach an optical device for harmonic conversion.

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COOK teaches a harmonic generating system.

CARDIMONA et al. tach a method for coupling laser beams in a Kerr medium.

Obviousness

Claim 1 recites a method for handling an optical pulse signal by either of pulse shaping, treatment of nonlinearity, or monitoring; wherein a signal handling quevice is provided which is capable of second harmonic generation by selecting a suitable optical path length for said device; and an output from said device is obtained, either as a signal pulse shaped or treated for nonlinearity, or as a second harmonic signal.

EDA et al. discuss an optical device having an optical path chosen (or the purpose of obtaining higher harmonics (column 1, line 10 to column 2, line 47).

COOK discloses a harmonic generator system which generates at least two output beams of higher order harmonic radiation from an input beam (abstract).

In view EDA et al. and COOK, a method for handling an optical pulse, which involves providing a signal handling device capable of performing harmonic generation via a selected optical path length and which outputs an optical signal at a second harmonic, as recited by claim 1 of the current application, would have been obvious on the claim date to someone skilled in the art of optical pulse shaping.

Claims 2, 3, and 4, pertaining to details of selecting the optical path length in regards to desired power levels would also be obvious in view of EDA et al., where design of a signal handling device for increasing output power is discussed (column 2, lines 32 to 47).

Claims 5 and 6 recite the use of a multi-segment and "zig-zag" traje tory, akin to the device disclosed by EDA et al. (figure 30).

Claims 7 recites the method of claim 2 wherein the Kerr effect of the signal handling device is negative.

CARDIMONA discloses a method for coupling laser beams, whereir the Kerr constant may be selected as either positive or negative (claim 1).

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Claim 7 is thereby obvious with additional reference to CARDIMON, et al.

Implementation details recited by claims 8, 9, 10, 11, and 12, pertailling to multiple signal handling devices and multiple channels are not found to be patentally distinguishing features.

In view of the above and the state of the art on the claim date, claims 13 to 33 are similarly found to be obvious.

Accordingly, claims 1 through 33 of the current application do not cumply with subsection 28.3 of the Patent Act.

In view of the foregoing defects, the applicant is requisitioned, unda Subsection 30(2) of the Patent Rules, to amend the application in order to comply with the Figtent Act and the Patent Rules or to provide arguments as to why the application does comply.

Under Section 29 of the *Patent Rules*, applicant is requisitioned to provide an identification of any prior art cited in respect of the European Patent Office application describing the same invention on behalf of the applicant, or on behalf of any other person claiming under an inventor named in the present application, and the patent number, if granted Amendment to avoid references cited abroad may expedite the prosecution.

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